The Practice of Optometry and the Training it Requires



For Disabled Soldiers
Sailors, and Marines to Aid Them
in Ghoosing a Vocation

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Note to the Disabled Soldier, Sailor, or Marine.

As a disabled soldier, sailor, or marine you should remember that the Office of the Surgeon General, War Department, and all its employees, the Bureau of Medicine and Surgery, Navy Department, and all its employees, and the Federal Board for Vocational Education and all its employees are mutually interested in your welfare solely. They have arranged a definite plan of cooperation to help you in every possible way. You can not afford to leave the hospital until the medical officers have done everything that they can for you to restore you to physical health and strength. Any other course will interfere with your vocational success later. Furthermore, you should by all means take advantage of the educational opportunities which the hospital has provided for you.

While you are making up your mind what line of work you want to follow you should take advantage of the opportunities to try yourself out in the different lines of activities which are provided at the hospital. When once you have made up your mind as to the employment you want to enter or the kind of training you want the Federal Board to give you after you leave the hospital, you should ask the vocational officers at the hospital to provide for you the kind of training which will advance you in the direction of the occupation which you expect to follow or for which you expect to be trained after you leave the hospital. You will find the educational officers at the hospital eager to render this service for you, and you should consult them early in your hospital career.

All disabled soldiers, sailors, and marines in hospitals who want information about reeducation should ask any instructor of the Hospital Educational Service or the representative of the Federal Board for Vocational Education.

Men discharged from the military or naval service who want information should write to or call at the office of the Federal Board for Vocational Education, Washington, D. C., or the District Office of the Federal Board of the district in which they are located. The district offices of the Board are located at the following points: Boston, New York City, Philadelphia, Washington, Atlanta, New Orleans, Dallas, St. Louis, Cincinnati, Chicago, Minneapolis, Denver, San Francisco, and Seattle. For addresses see p. 7.

Acknowledgment.

The material of this monograph was compiled by S. Reid Warren, editor of The Keystone Magazine of Optometry, assisted by several successful practicing optometrists, to whom acknowledgment is gratefully accorded. The monograph has been prepared under the direction of Charles H. Winslow, Chief of the Research Division of the Federal Board for Vocational Education. Acknowledgment is due Dr. John Cummings, of the Research Division, for editorial assistance.

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THE PRACTICE OF OPTOMETRY AND THE TRAIN- Uncle Sam, Your Friend. ING IT REOUIRES.

It is an indisputable fact that the efficiency of the American troops from a war as during the late war was greater than that of any other army. One your Uncle Sam has made for you. factor which contributed largely to their success is apt to be overlooked by the casual observer, but excited comment wherever our troops excellent medical were thickest in the fray: Our men were properly glassed,

You, for whom this monograph is written, well know how thoroughly men in the hosand systematically your eyes were examined. Perhaps you do not thorized the Fedknow that the actual testing of your eyes and the adoption of proper eral Board for Vocational Eduglasses whenever necessary to bring vision up to normal was done in a cation to see to it that you shall, if you are entitled

What an important part glasses played in the success of our Army the war-risk inand Navy is a chapter yet to be written.

nd Navy is a chapter yet to be written.

Now that the conflict is over it is fitting to call attention to the opporting tyou wantit and tunity of entering a profession which has contributed so much to the trained and winning of the war. And as optometry is a comparatively strange placed in any one word to those not personally concerned with the profession on a value of the hundreds word to those not personally concerned with the profession, an explanation of its meaning had best preface this monograph.

What is an Optometrist?

An optometrist examines eyes for the detection and correction of the Federal Board visual or muscular defects not requiring medical attention. He uses training for no drugs; he does not treat diseases of the eye, nor does he practice in school, office, surgery. To one not familiar with optical sciences it may be difficult farm, or anywhere the comprehend they what the graph of the extension of the comprehend they what the graph of the extension of the comprehend they what the graph of the extension of the to comprehend, then, what the work of the optometrist includes. necessary in order Comparison of his work with two better known and somewhat related "over the top" vocations—that of the oculist and that of the optician—will perhaps successfully into be the quickest method of explaining the practice of optometry.

First, let it be understood that the human eye may be considered Not only will you receive this inas a refracting and focusing mechanism, similar to a camera, as well struction free, but as an organ subject to diseases like any other part of our body.

An oculist (a physician who specializes on the eye) deals both with properly supported by the Govrefraction and muscular deficiencies, and with pathological or diseased ernment conditions.

An optometrist, on the other hand, specializes on the functions of the eye as a refracting and focusing apparatus.

An optician grinds the lenses and puts together the necessary fittings to form the eyeglasses prescribed by the oculist or the optometrist.

Type of Man Required.

The serious nature of the optometrist's work—the care of human vision-makes it imperative that only men of good moral character and high ideals be admitted to the practice of optometry. An optometrist should be more interested in helping his patient than in making

No other friend of relative over made such liberal provison for disabled

In addition to the and reconstrucservice for tion occupations which which the rich life of America offers.

It is the duty of

you and your de-pendents will be while you are in training.

If You Are Single.

If you are a single man without dependents, or a man required by his course struction to live the Government at least \$65 per Length of Preparatory Training. month, You may Government of active service, cases to a physician.
you will receive
this same pay In view of the less that your monthcourse.

If You Are Married.

the Government ready been stated, pay you \$65 per month and your wife separately you while you are being trained.

money: he should be tactful, and not only professionally competent. but of the type of personality that inspires confidence. He should realize that the completion of his course of technical instruction and a the receipt of a license to practice merely mark matriculation in a postof in-graduate course stretching out to the end of his days of practice. He apart from his should not enter the profession of optometry unless willing to continue dependents, you the study of never-ending developments in this science and practice.

be paid more. It. As the optometrist takes up that the first of the physician or oculist, for example, you training requires a briefer time than that of the physician or oculist. As the optometrist takes up little in medical studies, his technical than \$65 per The optometrist, of course, must be able to recognize the symptoms month as pay for your last month of eye diseases, but does not attempt to remedy them: he refers such

this same pay during your entire course of technical training covers only to training. Furthermore, if your disability is such. The practice of optometry is reg In view of the lesser scope of the work of the optometrist his course of of technical training covers only two to four years, as against four to

The practice of optometry is regulated by law in 41 States, and in compensation Hawaii, Philippine Islands, Porto Rico, and Alaska. These laws under article 3 of usually require a general education equivalent to two years of high surance act is school instruction and (before admission to examination for a license) greater than \$65, you will continue completion of a course in a school of optometry having an approved to receive this two-year course, in addition to one year of practical service in an ing your, entire optometrist's office.

The laws of the different States vary considerably as to these requirements, and the prospective optometrist should inform himself as to the provisions of the law in the State in which he expects to practice. A few optometry laws have reciprocity clauses, making it permissible

for licensees of one State to practice in another.

Most of the schools have two-year courses-some longer. One of the universities-Ohio State-has an optometry course laid out over If you are may a period of four years. The course at Columbia University is planned ried, you and your wife together will to cover two years. In a number of instances it has been covered in receive \$75 per one year by students who were exceptionally well prepared. The Government, pro-studies in optical subjects can be counted toward a B. S. degree, for vided you live towhile you which four years are required, as is usual. Besides these universities. are taking a course a number of schools of optometry in various parts of the country have of instruction. If a number of schools of optometry in various parts of the country have is two to three year courses. A list of such schools and their addresses your course is two to three year courses. A list of such schools and their addresses such that you must live apart, may be obtained from the Federal Board for Vocational Education.

as has al- The Optometrist's Work.

The word "optometry" is made up of two Greek words: optos, per visible and metron, a measure, meaning the measurement of the visual month. The larger powers. Examination for detection of visual deficiencies includes larger the amount tests by the use of charts and of certain precise measuring instruments. paid by the Government for his For example: One instrument permits inspection of the interior of support, whether the eye; another, measurement of the curvature of the cornea; still living with you or from another, the field of vision. With the data obtained by the intelligent use of all these instruments the optometrist can determine the nature of the lenses required to correct any refractive errors found.

> Formerly glasses were given merely as an aid to vision, now they are prescribed for the relief of strain and its resultant symptoms, such as headache, etc. They are also supplied for efficiency and protection purposes to factory employees, for some working without glasses will

exhibit as much eye fatigue in 5 hours as others will in 10; and em-Train what you ployers are now recognizing this to their own advantage.

Thus the field of usefulness and profit for optometrists is ever You will not then enlarging.

Indoor Work-Physical Requirements.

An optometrist confines his practice to office work, there being no with your spretty much all of you traveling or outdoor activity. If desired, his office may be established in his own home. As the work is all indoors, there is no great it to others by physical strain. While sound health and normal strength are always taking the traindesirable, robustness is not a first requirement of this vocation; nor Sam stands ready is possession of all the members essential. A man who has lost a tirely at his exhand, an arm, a leg, or even both legs could successfully practice the pay for your inprofession of optometry, if properly fitted with artificial equipment struction, It is also quite possible for a man with one eye to practice optometry, your dependents. To a determined man this would not prove an insurmountable obstationing. Don't cle, though he might be at a disadvantage because some patients think about what would not be could not be cou might think he could not do his work as well. This is, of course, un- Train what you reasonable, but should be considered. Several instances are known home, and torget to the writer of successful optometrists who have lost the sight of the rest. one eye through cataract or other cause.

A Colorado woman who has been practicing optometry for a number of years sums up some of the advantages of this profession in the following words:

"There are fewer objectionable features, and more to commend the practice of optometry than in any other profession or semiprofession. No midnight calls, as in the case of the physician; no direct contact, as in osteopathy, or chiropractic; no proximity to offensive breath, as in dentistry. Variety and fascination attach to the work, besides the joy that comes with doing something that relieves suffering and is beneficial to humanity. The time required for preparation and getting established is somewhat less than for other professions; the expense incurred more moderate."

The Demand for Optometrists.

No man taking up the study of optometry need fear a lack of opportunity when his course is completed. There is a scarcity of optometrists all over this broad land, and in thousands of optometrists' offices to-day opportunities are open for assistants. As such, an optometrist can develop a following, and eventually start for himself. Moreover, the call of young men to the defence of their country cut down the number of students in this, as in all other vocations; hence the number of graduates from the optometric schools and colleges is insufficient to meet the demand.

Another advantage in following this vocation is the fact that the profession is still in the formative stage. For this reason there are unusual opportunities for progressive, studious, conscientious men of the professional type.

The hours of work, which are regular, are of course determined by the individual practitioner; the man who has established his own office can make his hours to suit his own convenience. If he is employed by another optometrist, he will find the hours are not as long as in many other callings.

miss what have left over there. What you have left and are bringing home

Scope of a Course in Optometry.

The curriculum of the course in applied optics in one of our leading A former carpen-universities will give a comprehensive survey of the branches of ter whose left leg scientific knowledge forming the science of optometry. The follow- was amputed above the knee on ing subjects are included in this course: Chemistry, anatomy, physics, account of injuries physiology, algebra, geometry, trigonometry, bacteriology, optics, psy-studied machine chology, drawing, pathology, and English composition. Under now employed by theoretical and applied optics are of course grouped the chief subjects a railway. bearing upon the science and practice of optometry. The mathemati- Another soldier cal studies are necessary as a foundation for an understanding of the chronic bronchitis optical science.

While the university course, in its cultural as well as technical de-able to return to velopment, is desirable, still, as in other professions and callings, suction as a barcess and service are not dependent upon the completion of such a tender. He was trained as a motor course. But general education, culture and personality developed mechanic and service are not dependent upon the completion of such a tender. He was trained as a motor course. therefrom are all potent factors in success in any profession, and should cured an open-air be acquired from one source or another before or during technical feur. training.

Possible Income.

As in other professions, it usually requires a few years to build up abdomen. He was practice, but few men who have started under the started and the started a practice, but few men who have started under proper conditions mechanical drawand with fair qualifications have failed to achieve success. An in-ing and is now and with fair qualifications have failed to achieve success. come of \$1,500 or \$2,000 yearly is common, and many optometrists drafting room. earn incomes of from \$5,000 to \$10,000. As an employee of another A soldier suffering optometrist, a practitioner can earn from \$30 to \$50 a week, and even partitis, formerly more.

Optometry is not a means of earning a living with ease nor a haven practice and is for the indolent, but it does offer a reasonable competency without the tool room of a unusual sacrifice or hardship.

Examples to

and asthma, found it inadvis-

A former laborer was weakened by

motor company.

A machinist's helper lost the power to use his left hand, was retrained in a course for steam T3 1 engineering, and is now employed 25 a stationary engineer in roundhouse.



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